

ABSTRACT

A short-circuit detecting and protecting circuit includes a switching unit for obtaining input signals, a comparator having one input terminal coupled to the switching unit, a control transistor
5 coupled between the switching unit and the other input terminal of the comparator to define input time of the input signals. A circuit may be used to detect a voltage difference between the input terminals of the comparator. The comparator may compare the voltage difference between the input terminals of the comparator
10 and internal voltage of the comparator, to determine a short-circuit or overload situation.